SIEMENS

Data sheet 3RR2243-3FA30



Monitoring relay, can be mounted to Contactor 3RT2, Size S2 standard, digitally adjustable Apparant/active current monitoring 8...80 A, 20...400 Hz, 3-phase Supply 24 V AC/DC 1 change-over contact, 1 semiconductor output for alarm and warning Monitoring for Current overshoot and undershoot Phase failure, Cable break Phase sequence Residual current Blocking current Warning and alarm thresholds with or without fault buffer ON delay 0-99 s Noise pulse suppression 0-30 s Pause after fault 0-300 min spring-type connection system

product brand name	SIRIUS
product designation	Monitoring relays
design of the product	digitally adjustable, 3-phase current monitoring
product type designation	3RR2
General technical data	
size of contactor can be combined company-specific	S2
operating apparent power rated value	4 VA
insulation voltage for overvoltage category III according to IEC 60664	
with degree of pollution 3 rated value	690 V
surge voltage resistance rated value	6 kV
consumed current at 24 V	90 mA
protection class IP	
• on the front	IP20
of the terminal	IP00
shock resistance	10g / 11 ms
vibration resistance	10 55 Hz / 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
reference code according to IEC 81346-2	K
relative repeat accuracy	2 %
Substance Prohibitance (Date)	10/01/2009
Supply voltage	
type of voltage of the supply voltage	AC/DC
supply voltage 1 at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
supply voltage 1 at DC rated value	24 V
supply voltage frequency 1	50 60 Hz
Measuring circuit	
type of current for monitoring	AC
adjustable current response value current	
• 1	8 80 A
• 2	8 80 A
adjustable response delay time	
when starting	0 99 s
with lower or upper limit violation	0 30 s
adjustable switching hysteresis for measured current value	0.2 16 A
accuracy of digital display	+/-1 digit
Precision	

tomporature drift per °C	0.1 %/°C
temperature drift per °C Short-circuit protection	0.1 707 0
	fund a C : A A
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gG: 4 A
Communication/ Protocol	
protocol is supported IO-Link protocol	No
type of voltage supply via input/output link master	No
Auxiliary circuit	
number of CO contacts	
for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
● at 24 V	3 A
• at 230 V	3 A
● at 400 V	3 A
operational current of auxiliary contacts at DC-13	
● at 24 V	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
operating power rated value	2.5 W
ampacity of the semiconductor output at AC-14 at 240 V at 50/60 Hz	20 mA
ampacity of the semiconductor output at DC-13 at 240 V	20 mA
ampacity of the semiconductor output in SIO mode	20 mA
operational current at 17 V minimum	5 mA
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Connections/ Terminals	
product component removable terminal for main circuit	No
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 35 mm²), 1x (1 50 mm²)
• stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
solid or stranded	1 50 mm²
finely stranded with core end processing	1 35 mm²
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (24 16)
AWG number as coded connectable conductor cross section for main contacts	18 1
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	99 mm
width	55 mm
depth	112 mm
required spacing	
with side-by-side mounting forwards	0 mm
— forwards	0 mm

— backwards	0 mm		
— upwards	0 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	10 mm		
— backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-25 +60 °C		
during storage	-40 +80 °C		
Certificates/ approvals			
General Product Approval		EMC	

(P)

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certific-

Type Test Certificates/Test Report





Marine / Shipping

other







Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RR2243-3FA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR2243-3FA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

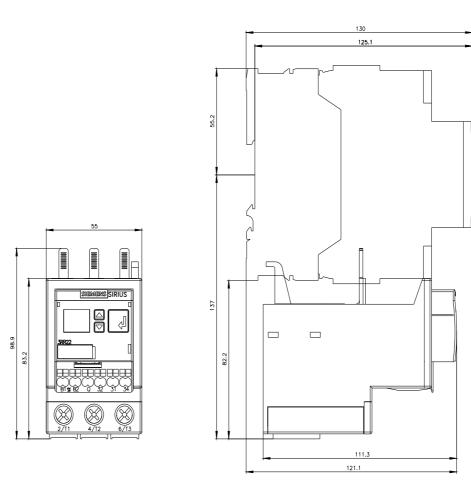
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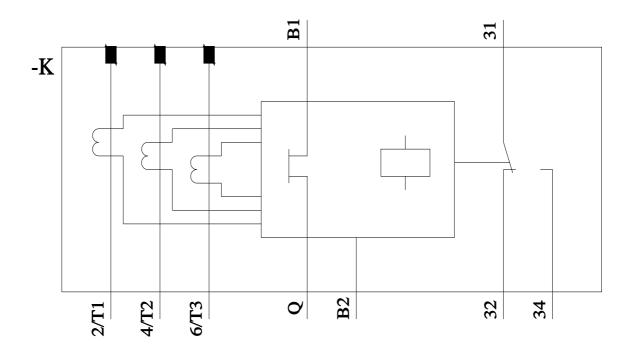
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2243-3FA30&lang=en

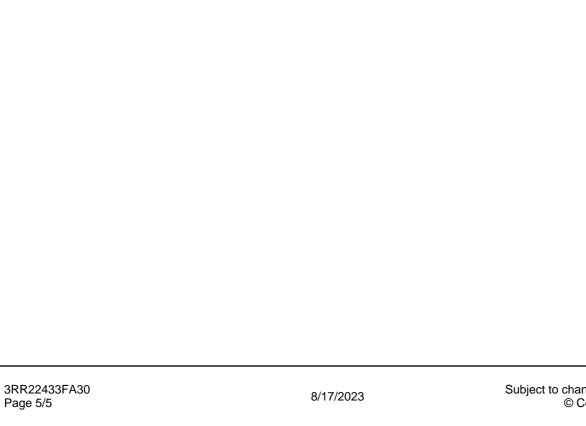
Characteristic: Derating

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